

Terms to Know

Skeletal Anatomy

1. *Planes of Reference*

- sagittal, coronal, transverse

2. *Directions*

- superior or cranial, inferior (caudal), anterior (ventral), posterior (dorsal)
- medial, lateral
- proximal, distal
- external, internal
- endocranial, ectocranial
- superficial, deep
- palmar, plantar, dorsal

3. *Motion*

- flexion, extension
- abduction, adduction
- rotation and opposition

4. *Teeth**

- mesial, distal
- lingual, labial, buccal
- interproximal, occlusal, incisal
- mesiodistal, buccolingual, buccolabial

5. *Hands and Feet**

- pronation, supination
- dorsiflexion, plantarflexion
- eversion, inversion

6. *Projections*

Sharp – process, eminence, spine

Dull – tuberosity, tubercle, trochanter, malleolus, boss, condyle, epicondyle

Linear – torus, ridge, crest, line

7. *Parts*

- head, neck, shaft or diaphysis, epiphysis

8. *Depressions*

Pits – fovea, fossa, sinus

Holes – foramen, alveolus, fontanelle

Linear – sulcus, canal or meatus, groove, suture

Bone Biology

- collagen, hydroxyapatite
- osteoblasts, osteoclasts, osteocytes
- cortical/compact and cancellous/trabecular
- periosteum, endosteum
- woven bone, lamellar bone
- Haversian canals and systems, Volkmann's canals, canaliculi
- anlage, intramembranous growth, endochondral growth
- Wolff's law
- synovial joint (ball-and-socket, hinge, planar, sellar), cartilaginous joint (symphysis, synchondrosis), syndesmosis, gomphosis